

ABSTRACT

This invention is aimed at providing a motion picture encoding or decoding system and a motion picture encoding or decoding method which economize the electric power consumption efficiently as compared with the conventional technique. They are provided with at least one failure avoiding means adapted to calculate a necessary volume K_p of operation required for encoding or decoding one frame, decide an operating frequency F capable of encoding or decoding the necessary volume K_p of operation within a duration T_e allocated in advance to the operation of encoding or decoding the one frame, perform the operation of encoding or decoding the one frame while continuing the operation of the processor at the operating frequency F and an operating voltage V befitting the operating frequency F , and avoid the failure situation which occurs when the necessary volume K_p of operation is smaller than the actually necessary volume of operation.